Walve

Time Table Management System
Vision

Version 1.2

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Revision History

Date	Version	Description	Author
16/09/2018	1.0	Initial draft for Inception phase	Shoaib Manzoor
17/09/2018	1.1	Added Positioning and summary of capabilities	Moiz Adnan
18/09/2018	1.2	Elaborated key features for the application	Furqan Hameed

Table of Contents

Vision

1.   Introduction

The motivation behind the Time Table Management System (*TTMS*) is to create a practical application that helps in the creation, management and presentation of a University Time table. This application will help administrators create timetables which are clash free, thus helping students, professors and administrators alike by providing them with timetables which are as less miss managed as possible. The application will entertain both the managerial side by handling class allocation and rescheduling as well as the student and professor side by providing a concise and relevant view where the user can easily locate their classrooms.

1.1   Purpose

The purpose of this document is to collect, analyze, and define high-level needs and features of the Time Table Management System (*TTMS*) application. It focuses on the capabilities needed by the target users, and why these needs exist. The details of how the *TTMS* fulfills these needs are detailed in the supplementary specifications.

1.2   Scope

This Vision Document applies to the *TTMS*, which will be developed by *Walve* Software. The application is intended for any desktop machine. TTMS is to be integrated with the target educational institution's current information system to query for relevant information and operate accordingly. The application will provide a way for the institute to manage everything involving the time table schedule through it using features highlighted further on in this document.

1.3   Definitions, Acronyms, and Abbreviations

TTMS	*Time Table Management System*

Positioning

2.1   Business Opportunity

Educational institutes especially universities mostly make the timetables by hand, which is very time consuming and can create problems for both students and administrators in the long run. This application can help these institutes tremendously thus there is a demand for an application like this, and this application can fill the market gap in this area.

2.2   Problem Statement

The problem of	*Miss-managed and clash filled timetables*
affects	*Students, professors, administrators*
The impact of which is	*More hassle, more time wastage*
A successful solution would be	*An automated timetable system which generates the best possible timetable according to rooms available*

2.3   Summary of Capabilities

Table 4-1   Customer Support System

Customer Benefit	Supporting Features
Academic Officers save hours of work weekly spent on Time table creation	*Smart Builder in TTMS provides weekly time table generation functionality based on dynamic requirements and satisfies constraints*
Ease in the handling of rescheduled/ cancelled classes	*Allows Academic Officers to easily manipulate existing schedules to suit new conditions*
Students and Professors easily view their respective classrooms	*Handles different views for Students and Professors allowing for better visual experience*
Ease of delivery of key information in scenarios where classes are rescheduled or cancelled	*TTMS Notification Service notifies all involved parties when a class schedule is modified by an Admin or a Professor*
Ease in planning classrooms for Professors	*Professors can highlight key features of classrooms within a schedule to inform students and maintain a steady pace for their course*

3.0   Product Features Summary

3.1   Smart Builder Time Table Generator

Smart Builder allows for the automatic creation of weekly schedules which satisfy classroom constraints, professor preferences and ensure minimum student clashes. No input is provided by the Academic Officer as all decisions are made based on pre-existing information regarding students, professors, courses and classrooms stored through *TTMS*.

3.2   Schedule Presentation Views

TTMS presents a schedule in many different views for each actor involved. Students and Professors can view classes relevant to them allowing for a much more concise and easy to understand view. Special features are also available based on the current view being presented (e.g. modification for administrators, reschedule/ cancel operations for professors etc.)

3.3   Schedule Modification

TTMS allows for the modification and adjustment of existing schedules based on new dynamic conditions that have arisen. Academic Officers can easily view possible available slots and appoint a new class accordingly. Schedules may also be modified based on other criteria. (e.g. upcoming national holidays, classroom repair work, lecturer unavailability etc.)